

FIG. 1
1 TELECONFERENCE SYSTEM
10 LOCATION SYSTEM
11 VIDEO AND AUDIO SERVER
12 ELECTRONIC WHITEBOARD
13 CARD READER
 100 LOCATION SERVER
20 LOCATION SYSTEM
21 VIDEO AND AUDIO SERVER
22 ELECTRONIC WHITEBOARD
23 CARD READER
 200 LOCATION SERVER
30 SHARED WORKSPACE SERVER

FIG. 2
100 LOCATION SERVER
101 LOCATION SERVER MANAGER
LOCATION SUBSYSTEM MANAGEMENT MODULE
AUTHENTICATION MODULE

FIG. 3

SHARED WORKSPACE SERVER 30
WORKSPACE MANAGER 31

WORKSPACE
WORKSPACE
WORKSPACE

SESSION

FILE

REFERENCE (URL)

ACCESS HISTORY (PLACE, PERSON, TIME)

FIG. 4 SHARED WORKSPACE
HYPERLINK
INITIAL SHARED WORKSPACE

FIG. 5
CONFERENCE ROOM A SITE CONTEXT SERVER + BOARD
CONFERENCE ROOM A HOLD CARD

CONFERENCE ROOM B SITE CONTEXT SERVER + BOARD

CONFERENCE ROOM B HOLD CARD.

FIG. 6
CONFERENCE ROOM A

TASK LIST OF WATANEBE
. PROJECT A
. PROJECT Y
. PROJECT Z
. PROJECT B

CONFERENCE ROOM A

CONFERENCE ROOM B

CONFERENCE ROOM B HOLD CARD.

FIG. 8
CONFERENCE ROOM A

TASK LIST OF HORIKIRI
. PROJECT X
. PROJECT Y
. PROJECT Z
. PROJECT W

CONFERENCE ROOM A

FIG. 9
CONFERENCE ROOM A

TASK LIST OF HORIKIRI AND WATANEBE
. PROJECT Y
. PROJECT Z

CONFERENCE ROOM A

FIG. 10
CONFERENCE ROOM A

FILE LIST OF PROJECT Y
. FILE K
. FILE L
. FILE M
. FILE N

CONFERENCE ROOM A

FIG. 11
CONFERENCE ROOM A
PERSONAL DATA REGISTRATION

FILE (F), EDIT (E), DISPLAY (V), FAVORITE (A), TOOLS (T), HELP (H)

CONFERENCE ROOM A

FIG. 12

CHANGE

FIG. 13

CONFERENCE ROOM A

FILE LIST OF PROJECT Y

- . FILE K
- . FILE L
- . FILE M
- . FILE N

CONFERENCE ROOM A

FIG. 21

CONFERENCE ROOM A

FILE LIST OF PROJECT X

- . FILE O
- . FILE P
- . FILE Q
- . FILE R

CONFERENCE ROOM A

FIG. 22

CONFERENCE ROOM A

FILE LIST OF PROJECT X

- . FILE O
- . FILE P
- . FILE Q
- . FILE R

CONFERENCE ROOM A

CONFERENCE ROOM B

TASK LIST OF IKEDA

- . PROJECT X
- . PROJECT XX
- . PROJECT XXX
- . PROJECT ZZZ

CONFERENCE ROOM B

FIG. 23

FLYCAM PANORAMA

CONFERENCE ROOM B

FIG. 27
ZOOM IN ON STRUCTURE MODEL

FEEL LIKE A LITTLE XXX.

FIG. 28

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FIG. 32

        START WORKSPACE
S1  DISPLAY CANDIDATES FOR WORKSPACE
S2  SELECT WORKSPACE
S3  OPEN WORKSPACE
S4  ADD TO ACTIVE WORKSPACE
S5  USE WORKSPACE
        END
```

FIG. 34
TERMINATE WORKSPACE
S21 STORE UNREGISTERED HISTORY
S22 DELETE FROM ACTIVE WORKSPACE
S23 CLOSE WORKSPACE
END

FIG. 35
REGISTER OBJECT REFERENCE
S31 TAKE OUT ONE WORKSPACE FROM SET OF ACTIVE WORKSPACES

WORKSPACE EXISTS
S32 IS REFERENCE TO BE ADDED?
S33 ADD REFERENCE TO WORKSPACE
END

FIG. 36

START SUBWORKSPACE
S41 SIMULTANEOUS USE
EXCLUSIVE USE
S42 DEACTIVATE WORKSPACE
S43 START WORKSPACE
END

FIG. 37

DEACTIVATE WORKSPACE
S51 CHANGE WORKSPACE FROM ACTIVE WORKSPACE TO INACTIVE WORKSPACE
END

FIG. 38

SWITCH WORKSPACE
S61 DEACTIVATE WORKSPACE
S62 DISPLAY WORKSPACE CANDIDATES
S63 SELECT WORKSPACE
S64 RESTORE WORKSPACE
END

FIG. 39

STORE UNREGISTERED HISTORY
S71 TAKE OUT ONE OBJECT FROM UNREGISTERED HISTORY
S72 HISTORY EXISTS
S73 IS OBJECT TO BE ADDED?
S74 ADD REFERENCE TO WORKSPACE
END

FIG. 40

WORKSPACE REFERENCE
S81 SPECIFY REFERENCE MODE OF A PLURALITY OF WORKSPACES

S82 DISPLAY COMMON OBJECT TO ALL ACTIVE WORKSPACES
S83 DISPLAY OBJECTS OF ALL ACTIVE WORKSPACES
END

FIG. 41

START SESSION

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S91 EXTRACT CLIENTS ALREADY STARTING SPECIFIED SESSION  
S92 INSTRUCT ALL CLIENTS ALREADY STARTING SESSION TO CONNECT TO NEW CLIENT  
END
```

FIG. 42

```
1001 WEB INTERFACE  
1002 DIRECTORY SERVICE  
1003 IC CARD AUTHENTICATION SECTION  
1004 DOCUMENT ARCHIVE  
1005 METADATA MANAGER  
1006 PRESENTATION CONTROLLER  
A.  
TOUCH PANEL (LARGE)  
TOUCH PANEL (SMALL)  
B. IC CARD
```

FIG. 43

```
PRINT  
SAVE  
RETURN TO LISTING
```

FIG. 45

```
SELECTIVELY DISTRIBUTING DISTRIBUTING TO ALL PARTICIPANTS RETURN
```

FIG. 47

```
LOG IN  
S101 ACQUIRE FILE LIST  
S102 PRODUCE FILE SELECTION DISPLAY  
S103 START FILE DISTRIBUTION  
S104 ACQUIRE PARTICIPANT LIST  
S105 SELECT DISTRIBUTION DESTINATION  
S106 DISTRIBUTE FILE  
LOG OUT  
S107 REGISTER USER IN RECEPTION TERMINAL  
S108 ADD TO PARTICIPANT LIST  
A.  
ADD DISTRIBUTION FILE SET  
B. ACQUIRE  
C.  
ADD PARTICIPANT SET
```

FIG. 48

```
LOG IN  
S111 ACQUIRE FILE LIST  
S112 PRODUCE FILE SELECTION DISPLAY
```

S113 IS DISTRIBUTION TO BE STARTED?
S114 START FILE DISTRIBUTION
S115 ACQUIRE PARTICIPANT LIST
S116 SELECT DISTRIBUTION DESTINATION
S117 DISTRIBUTE FILE

LOG OUT

S118 REGISTER USER IN RECEPTION TERMINAL
S119 ADD TO PARTICIPANT LIST
S120 IS CONFERENCE TO BE CONTINUED?
S121 DETERMINE DISTRIBUTION FILE
S122 LOG OUT

A.
ADD DISTRIBUTION FILE SET

B. ACQUIRE

C.
ADD PARTICIPANT SET

FIG. 49

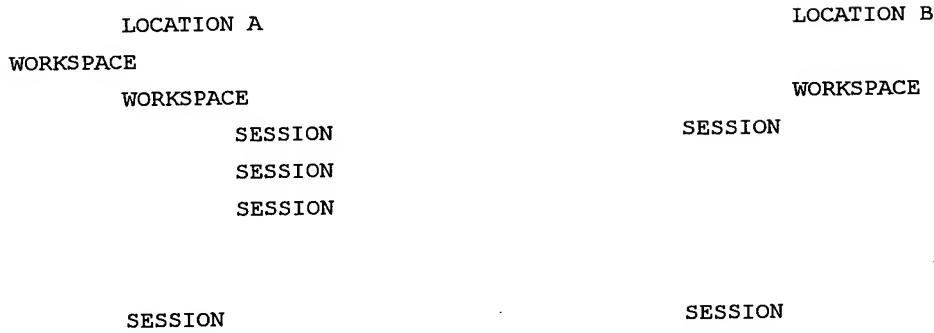


FIG. 50

1.
WORKSPACE SERVER
 WORKSPACE
 FILE
 (PREVIOUSLY REGISTER)
 AP START
2. FILE REFERENCE REQUEST
3. LOCATION SYSTEM
4. I/O INTERFACE
5. I/O INTERFACE
6. LOCATION SYSTEM

FIG. 51

- ## 1. WORKSPACE SERVER

WORKSPACE
FILE
(TEMPORARILY REGISTER)
AP START

2. FILE REFERENCE REQUEST
3. LOCATION SYSTEM
4. FILE
5. I/O INTERFACE

FIG. 52

WORKSPACE SERVER
WORKSPACE
FILE
(PREVIOUSLY REGISTER)
AP START

2.
FILE
(PREVIOUSLY REGISTER)
AP START

FIG. 53

1.
WORKSPACE SERVER
WORKSPACE
FILE
(PREVIOUSLY REGISTER)

2. NEW FILE

FIG. 55

A.
USER BASIC
. USER ID (CHARACTER STRING)
. USER NAME (CHARACTER STRING)
. PASSWORD (CHARACTER STRING)

B.
USER EXTENSION
. USER ID
. HOME PC (CHARACTER STRING)
. HOME Docushare (URL)

C.
CARD AUTHENTICATION
. CARD ID
. USER ID

D.
PARTICIPANT Card RW

- . ROOM SERVER
- . ID2
 - . ROOM SERVER
 - . ID

E.

CURRENT SESSION

- F. SESSION
- . (ROOM LIST)
- . PARTICIPANT LIST
- . DOCUMENT LIST
- . START TIME
- . END TIME
- . EVENT LIST

G.

EVENT

- . WHO
- . WHEN
- . WHAT
- . WHERE
- . FOR WHOM
- . HOW

H.

- . ROOM NAME
- . (PRINTER LIST)
- . (DEFAULT PRINTER)
- . RW LIST (ID, ID2)

- . ROOM NAME
- . PRINTER LIST
- . DEFAULT PRINTER
- . RW LIST

FIG. 56

LOCATION APPARATUS 1

LOCATION APPARATUS 2

LINE

LINE

MULTIPOINT CONNECTION APPARATUS

LINE

LOCATION APPARATUS 3